BLUETREE WIRELESS DATA

Simple. Reliable. Wireless modems

BlueTree Wireless Data Inc. is a leading developer and manufacturer of wireless modems and software solutions for commercial and industrial applications. BlueTree Wireless's modems are designed to operate on cellular data networks worldwide enabling M2M applications in the Public Safety, Fleet Management, Field Service, SCADA and Telemetry markets.

IP 4400 GPRS

4000 IP Series

The IP 4400 GPRS is a smart, rugged wireless modem built to provide simple and reliable communications over the cellular GSM - GPRS data network. As part of the 4000 IP Series, it is designed for fleet management applications (not requiring and integrated GPS capability), wireless WAN back-up as well as process control and automation applications (SCADA).

Product Features

- **Dual Band: 850/1900 MHz**
- **Dual Mode: GSM & GPRS**
- **Rugged Design Standards**
  Military (MIL-STD-810F) and Automotive (SAE J1455)
- **Multiple Interfaces:**
  Serial, USB & Ethernet
- **Embedded Microprocessor, Memory and Internet Protocol (IP) Stack**
- **Intelligent Connection Management**
- **BlueVue Management Software**

Smart Connection Management

The IP 4400 modem has 'smart' programming so that it can initiate its own wireless data connection to the cellular network and complete the transfer of information. This feature allows for non-IP serial devices to be attached to the IP 4400, such as utility meters, and eliminates the need for operator intervention or an attached computer.

Embedded Microprocessor, Memory and Internet Protocol (IP) Stack

The embedded microprocessor in the IP 4400 supports multiple "serial-over-IP" applications. Combining the ability to communicate with attached non-intelligent devices, allows the modem to support more complex applications and specific customer solutions.

Multiple Interfaces: Serial, USB & Ethernet

The RS-232 (DB9) serial interface allows the IP 4400 modem to connect to any computer using a standard cable. The USB interface allows for connectivity to a like computing device using a standard USB adapter cable. Using a standard network adapter interface the IP 4400 can connect to an Ethernet computing device.

Inputs & Outputs for Remote Management and Event Reporting

Sensors can be connected to the I/O port of the IP 4400 modem (4 digital inputs, 3 digital outputs and 3 analog inputs). This allows fleet management and public safety applications to remotely trigger an output of the modem to turn ON or OFF peripheral equipment. The modem has the capability to monitor its digital input sensors for any change in state, and send a report to a remote server based on an event trigger (such as a panic button or ignition ON/OFF). The analog inputs allow monitoring of gradient data sources (such as a temperature sensor and low voltage indication). The modem has an intuitive embedded Event Reporting Protocol that automatically formats the messages reported to the remote server.

Advanced Local Area Networkin Features:

>Full TCP/IP Stack
>Embedded DHCP Server
>Networking Address Translations (NAT)
>Service Level Filtering
>Port Forwarding

Automatic Meter Reading (AMR) | Oil / Gas / Water Utility Management | Electronic Commerce – POS /ATM | Security & Automation Systems

Canada: BlueTree Wireless Data Inc. 2425 46th Avenue Montréal, Québec H8T 3C9 T : 514 422.9110 F : 514 422.3338
United States: BlueTree Wireless Data Inc. 11921 Freedom Drive, Suite 550 Reston, Virginia 20190 T : 703 397.5197 F : 703.904.4399
e-mail: sales@bluetreewireless.com web: www.bluetreewireless.com

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BlueTree Service and Support

BlueTree Wireless Data is committed to providing responsive, accurate and professional support that ensures a positive customer experience. All of our products are covered under our standard warranty program and for more comprehensive coverage our extended warranty plans provide enhanced services and features. Delivering on our commitment to provide outstanding pre and post sales support, the dedicated BlueTree Customer Solutions Team works to meet our promise of our simple, reliable, wireless modems and data solutions.

BlueVue Management Software

By combining the power of our graphical client software with the embedded intelligence inside the modem's firmware, the IP 4400 can easily be configured, monitored and managed using a local cable connection or a remote wireless data connection.

Product Specifications for IP 4400

Product Features	Dual Band 850/1900Mhz, GSM (release 99), GPRS (Multislot class 10), PBCCH Support
Frequency Bands	Transmit: PCS1900: 1850 to 1910 MHz, GSM850: 824 to 849 MHz Receive: PCS1900: 1930 to 1990 MHz, GSM850: 869 to 894 MHz
Host Interface	1x RS-232 Serial (DB9), 1x Ethernet (RJ45), 1x USB 1.0 (Device - Type B)
Data Rates	Supports: 115 Kbps (Class 10) Typical: 40-50 Kbps
Programming/Setup	BlueVue Management Software, AT commands, PPP, UDP/TCP Serial-IP
Inputs & Outputs	1x Reset Button, 2x Digital Outputs, 2x Analog Inputs, 4x Digital Inputs
LED Status Indicators	8 LED Lamps: PWR, TX, RX, DTR, REG, LINK, ACT, SER
Enclosure & Weight	Extruded Aluminum - 166 x 127 x 56 mm (6.55" x 5.00" x 2.20") - 500g (1.1 lbs)
Antenna Connection	Cellular: TNC Female Connector, 50 ohms GPS: None
Power Input	7 - 30 Volts DC (12 Volts DC is nominal) <> 4 pin Molex (Positive, Ground & Ignition Sense)
Power Consumption @ 12Vdc	1 Watts (Class 1) @ 1900Mhz (Avg: 214 mA) (Peak: 497 mA) 2 Watts (Class 4) @ 850Mhz (Avg: 225 mA) (Peak: 635 mA) Idle Mode: 48 mA is typical
Special Features	Embedded IP Stack
Environmental Specifications	Government, Military and Automotive Industry Specifications (MIL-STD-810F, 202G and SAE J1455) Tests Performed: Extreme Temperature, Humidity, Physical Impact and Vibration Operating Temperature: -30° to +70° C (-22° to +158° F) Storage Temperature: -40° to +85° C (-40° to +185° F) Humidity: 95% non-condensing
Operating System Support	Microsoft Windows 2000, XP and CE (Dial up Networking (DUN)
Certifications & Approvals	FCC, Industry Canada and PTCRB

March 2006

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